

CLAIMS:

1. A keel centralizer, comprising:
 - a) a flat keel centralizer body having a central bore extending through said body;
 - 5 b) said keel centralizer body including a circumferential flange member defining the perimeter thereof;
 - c) at least one opening extending through said keel centralizer body; and
 - d) a bearing ring mounted on said flange member.
2. The keel centralizer of claim 1 wherein said bearing ring includes a radiused
10 profile defining a peripheral contact surface of said keel centralizer.
3. The keel centralizer of claim 2 wherein said bearing ring is fabricated of a non-metallic composite material having a modulus of elasticity less than 30×10^6 .
4. The keel centralizer of claim 3 wherein the modulus of elasticity of said composite material is 0.5×10^6 .
- 15 5. The keel centralizer of claim 1 wherein said keel sleeve is clad with a corrosion resistant material.
6. The keel centralizer of claim 1 wherein said keel sleeve includes a wear resistant coating applied on an internal surface thereof.
7. The keel centralizer of claim 6 wherein said keel sleeve is clad with a corrosion
20 resistant material.
8. The keel centralizer of claim 6 wherein said wear resistant coating contains ceramic particles.